TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-05-06-01** **Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/DD/WO/48/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	06-05-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	915	915	9.2	90.9	80-100
26.5	1785	2700	27.0	73.0	55-90
9.5	1311	4011	40.1	59.9	35-65
4.75	1754	5765	57.7	42.4	25-55
2.36	1811	7576	75.8	24.2	20-40
0.425	1278	8854	88.5	11.5	10-25
0.075	817	9671	96.7	3.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	24.21%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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Prepared By:
Harshitha

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-15-01** **Date: 19-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/48/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	15/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.11	100.51	1.785	4430	105.4	23.8	22.1	27.7
2	Cover Slab-2	75.14	100.49	1.795	4434	102.4	23.1	21.5	26.8
3	Cover Slab-3	75.14	100.50	1.764	4434	105.7	23.8	22.2	27.7

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-05** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/48/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-05/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M30	15/05/2017	22/05/2017	150.44 X 150.24 X 150.47	22602	8.174	553.8	24.5	25.1
2	Drain Concrete	M30	15/05/2017	22/05/2017	150.11 X 150.98 X 150.44	22664	8.176	584.7	25.8	
3	Drain Concrete	M30	15/05/2017	22/05/2017	150.77 X 150.44 X 150.56	22682	8.142	564.8	24.9	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಮೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-20-05** **Date: 12-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/48/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-05/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M30	15/05/2017	12/06/2017	150.44 X 150.74 X 150.77	22677	8.155	759.7	33.5	33.3
2	Drain Concrete	M30	15/05/2017	12/06/2017	150.65 X 149.87 X 150.77	22578	8.145	740.6	32.8	
3	Drain Concrete	M30	15/05/2017	12/06/2017	150.47 X 150.98 X 150.77	22718	8.175	761.1	33.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-05** **Date: 23-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/48/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-05/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M30	16/05/2017	23/05/2017	150.77 X 150.98 X 150.75	22763	8.195	571.4	25.1	24.7
2	Drain Concrete	M30	16/05/2017	23/05/2017	150.34 X 150.44 X 149.87	22617	8.125	560.9	24.8	
3	Drain Concrete	M30	16/05/2017	23/05/2017	150.78 X 150.77 X 150.64	22733	8.174	550.1	24.2	

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-05** **Date: 13-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/48/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-05/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M30	16/05/2017	13/06/2017	149.75 X 150.88 X 150.75	22594	8.174	741.1	32.8	33.0
2	Drain Concrete	M30	16/05/2017	13/06/2017	150.98 X 150.44 X 150.66	22713	8.214	760.9	33.5	
3	Drain Concrete	M30	16/05/2017	13/06/2017	150.47 X 150.88 X 150.74	22703	8.165	742.4	32.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-05** **Date: 24-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/48/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-05/05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M30	17/05/2017	24/05/2017	150.12 X 151.44 X 150.47	22734	8.054	584.3	25.7	25.4
2	Drain Concrete	M30	17/05/2017	24/05/2017	150.45 X 150.87 X 150.99	22698	8.248	572.0	25.2	
3	Drain Concrete	M30	17/05/2017	24/05/2017	150.87 X 150.44 X 150.74	22697	8.165	576.5	25.4	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-05** **Date: 14-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC Roads in Dasarahalli Adjacent Main Roads in ward no.13 shettyhalli sub division.

Agency : Technical Manager (west), KRIDL, Project implementation unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/48/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-05/06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M30	17/05/2017	14/06/2017	150.74 X 150.68 X 150.79	22714	8.155	751.8	33.1	33.1
2	Drain Concrete	M30	17/05/2017	14/06/2017	150.87 X 150.66 X 179.25	22730	8.197	745.5	32.8	
3	Drain Concrete	M30	17/05/2017	14/06/2017	149.66 X 150.17 X 150.87	22474	8.175	752.9	33.5	

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